## PATENT COOPERATION TREATY

# **PCT**

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		see Form PCT/ISA/220			
CF017988WO	ACTION	as well as, where applicable, item 5 below.				
International application No.	International filing date (day/mon	th/year)	(Earliest) Priority Date (day/month/year)			
PCT/JP2004/004342	26/03/2004	Ł	28/03/2003			
Applicant		<u>-</u>				
CANON KABUSHIKI KAISHA						
This International Search Report has been according to Article 18. A copy is being tra			nority and is transmitted to the applicant			
This International Search Report consists	of a total of st	neets.				
X It is also accompanied by	a copy of each prior art document	cited in this	report.			
language in which it was filed, unl	less otherwise indicated under this	item.	sis of the international application in the			
The international this Authority (Ru		s of a transi	ation of the international application furnished to			
b. With regard to any <b>nucle</b>	otide and/or amino acid sequenc	e disclosed	in the international application, see Box No. I.			
2. Certain claims were fou	nd unsearchable (See Box II).					
3. Unity of invention is lac	king (see Box III).					
4. With regard to the title,						
the text is approved as su	ubmitted by the applicant.					
X the text has been establis	shed by this Authority to read as fol	lows:				
MICROMECHANICAL POTENTIAL SENSOR						
			•			
			•			
5. With regard to the abstract,						
· 🖃 📉	ubmitted by the applicant.		•			
the text has been establismay, within one month from	shed, according to Rule 38.2(b), by om the date of mailing of this intern	this Author ational sea	ity as it appears in Box No. IV. The applicant rch report, submit comments to this Authority.			
6. With regards to the <b>drawings</b> ,			,			
a. the figure of the <b>drawings</b> to be	published with the abstract is Figur	e No. <u>1</u>				
X as suggested by the applicant.						
as selected by th	is Authority, because the applicant	failed to su	ggest a figure.			
as selected by th	is Authority, because this figure be	tter charact	erizes the invention.			
b. none of the figures is to b	pe published with the abstract.					

International application No.

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PCT/JP2004/004342

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

A potential sensor (101) including first and second detection electrodes (121 a, b) opposed to an object of which a potential is to be measured, and a movable shutter (125) so positioned between the detection electrodes and the potential-measured object with gaps thereto; wherein the movable shutter can assume a first state and a second state, the first detection electrode is exposed to the potential-measured object wider when the movable shutter assumes the first state than when the movable shutter assumes the second state, and the second detection electrode is exposed to the potential-measured object narrower when the movable shutter assumes the first state than when the movable shutter assumes the first state than when the movable shutter assumes the second state.

## INTERNATIONAL SEARCH REPORT

International Application No PCT/JP2004/004342

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G01R29/12

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 GO1R GO3G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

#### EPO-Internal

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	RIEHL P.S.: "Microsystems for Electrostatic Sensing" DISSERTATION, 'Online! November 2002 (2002-11), page 1-8,32-40,79-84, XP002289224 UNIVERSITY OF CALIFORNIA, BERKELEY Retrieved from the Internet: URL:http://www-bsac.eecs.berkeley.edu/publications/search/send_publication_pdf2clien t.php?pubID=1040564878> 'retrieved on 2004-07-20!	1-9
	abstract; figures 5.1,5.3 page 79 - page 82	
Y	EP 1 003 044 A (XEROX CORP) 24 May 2000 (2000-05-24) page 2, line 1 - page 3, line 41; figure 1	1-9

	<b>-</b> /
Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
<ul> <li>Special categories of cited documents:</li> <li>"A" document defining the general state of the art which is not considered to be of particular relevance</li> <li>"E" earlier document but published on or after the international filing date</li> <li>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</li> <li>"O" document referring to an oral disclosure, use, exhibition or other means</li> <li>"P" document published prior to the international filing date but later than the priority date claimed</li> </ul>	<ul> <li>'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>'&amp;' document member of the same patent family</li> </ul>
Date of the actual completion of the international search	Date of mailing of the international search report
22 July 2004	05/08/2004
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer
NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Ernst, M

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International Application No
PCT/JP2004/004342

	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	 Relevant to claim No.
Calegory °	Citation of document, with indication, where appropriate, of the relevant passages	neievani io cianti No.
Y	DE 27 15 831 A (ELECTRIC POWER RES INST) 19 October 1978 (1978-10-19) page 13, line 28 - page 17, line 27; figures 1,3a,4 page 9, line 10 - page 10, line 24	1-9
A	US 2003/057977 A1 (VITURRO R ENRIQUE ET AL) 27 March 2003 (2003-03-27) figures 3,6,1 paragraph '0063!	1-9
Α	HSU C H ET AL: "Micromechanical electrostatic voltmeter" TRANSDUCERS. SAN FRANCISCO, JUNE 24 - 27, 1991, PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON SOLID STATE SENSORS ANDACTUATORS, NEW YORK, IEEE, US, vol. CONF. 6, 24 June 1991 (1991-06-24), pages 659-662, XPO10037437 ISBN: 0-87942-585-7 abstract; figures 1-3	1
A	DE 100 44 887 A (BUSCHNAKOWSKI STEPHAN) 17 May 2001 (2001-05-17) figure 1 column 1, line 1 - column 2, line 38	5-7
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## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/JP2004/004342

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
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